

IN THE CLAIMS

1-15 (canceled)

16. (previously presented) A molecular library comprising at least 10^4 different retroviral nucleic acid sequences, wherein said retroviral nucleic acid sequences comprise an insertion of a nucleic acid sequence that encodes a candidate bioactive peptide of from 4 to 100 amino acids in length, wherein said candidate bioactive peptide comprises a randomized portion.

17. (previously presented) A molecular library of retroviruses according to claim 16 comprising at least 10^5 different retroviral nucleic acid sequences.

18. (previously presented) A molecular library of retroviruses according to claim 16 comprising at least 10^6 different retroviral nucleic acid sequences.

19. (previously presented) A molecular library of retroviruses according to claim 16 comprising at least 10^7 different retroviral nucleic acid sequences.

20. (previously presented) A molecular library of retroviruses according to claim 16 comprising at least 10^8 different retroviral nucleic acid sequences.

21. (previously presented) A cellular library comprising at least 10^4 mammalian cells comprising different retroviral nucleic acid sequences, wherein said retroviral nucleic acid sequences comprise an insertion of a nucleic acid sequence that encodes a candidate bioactive peptide of from 4 to 100 amino acids in length, wherein said candidate bioactive peptide comprises a randomized portion.

22. (canceled)

23. (previously presented) The molecular library comprising at least 10^4 different retroviral nucleic acid sequences according to claim 16, wherein said retroviral nucleic acid sequences further encode a fusion partner translationally fused to said nucleic acid sequence that encodes a candidate bioactive peptide.

24. (previously presented) The molecular library comprising at least 10^4 different retroviral nucleic acid sequences according to claim 23, wherein said fusion partner comprises a targeting sequence.

25. (previously presented) The molecular library comprising at least 10^4 different retroviral nucleic acid sequences according to claim 23, wherein said fusion partner comprises a rescue sequence.

26. (previously presented) The molecular library comprising at least 10^4 different retroviral nucleic acid sequences according to claim 23, wherein said fusion partner comprises a stability sequence.

27. (previously presented) The molecular library comprising at least 10^4 different retroviral nucleic acid sequences according to claim 23, wherein said fusion partner comprises a dimerization sequence.

28. (previously presented) The molecular library comprising at least 10^4 different retroviral nucleic acid sequences according to claim 16, wherein said randomized portion is biased in randomization.

29. (canceled)

30. (previously presented) A cellular library comprising at least 10^4 mammalian cells comprising different retroviral nucleic acid sequences, wherein said retroviral nucleic acid sequences comprise an insertion of a nucleic acid sequence that encodes a candidate bioactive peptide of from 4 to 100 amino acids in length translationally fused to a fusion partner, wherein said candidate bioactive peptide comprises a randomized portion, and said candidate bioactive peptide is intracellular.

31. (previously presented) The cellular library according to Claim 30, wherein said fusion partner comprises a rescue sequence.